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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/523,810	02/08/2005	Yoshio Abe	265615US3PCT	1565
22850	7590	10/30/2006	EXAMINER	
C. IRVIN MCCLELLAND OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			DO, ROBERT C	
			ART UNIT	PAPER NUMBER
			2851	

DATE MAILED: 10/30/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

10/523,810

Applicant(s)

ABE, YOSHIO

Examiner

Robert C. Do

Art Unit

2851

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 08 February 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-6 is/are rejected.
- 7) ☒ Claim(s) 1 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08 February 2005 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 7/14/06, 4/29/05, 2/8/05.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_.

## **DETAILED ACTION**

### ***Drawings***

Figures 4 and 5 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

### ***Claim Objections***

Claim 1 is objected to because of the following informalities:

Claim 1 states that the "light absorbing section are constituted only by slant surfaces". Examiner believes that the claim is missing a point of reference for the sections to by slant from, therefore indefinite.

Appropriate correction is required.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Sun (US 6,816,307).

Sun teaches the following claimed elements:

Re. Claim 1, a lenticular lens sheet comprising:

- A plurality of lenticular lenses (Fig. 3, Cylindrical lenses (5) at the bottom of the figure) disposed on one surface of a translucent substrate.
- Convex lenses (7) disposed on the other surface of the translucent substrate, each at a condensing position in which light from the lenticular lenses is condensed.
- Convex external light-absorbing sections (6) disposed on the other surface of the translucent substrate at positions different from the condensing positions.
- Wherein the external light-absorbing sections are constituted only by slant surfaces (6).

Re. Claim 2, a lenticular lens sheet comprising:

- Wherein the external light-absorbing sections are constituted by two slant surfaces (6).

Re. Claim 3, a lenticular lens sheet comprising:

- Wherein the external light-absorbing sections (6) have a plurality of ridge shapes constituted by two slant surfaces (Fig 3 shows a plurality of the two slant surfaces).

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 4 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sun (US 6,816,307) in view of Moriguchi et al (US 4,509,823).

Sun's teachings are discussed above and Sun also teaches:

Re. Claim 5, a manufacturing method for a lenticular lens sheet comprising the steps of:

- Manufacturing a lenticular lens substrate that comprises a plurality of lenticular lenses (5) disposed on one surface of the translucent substrate, and convex external light-absorbing (6) sections disposed on the other surface of the translucent substrate at positions different from condensing positions in which light from the lenticular lenses is condensed.

Sun does not teach:

Re. Claim 4, a lenticular lens sheet comprising:

- An external light-absorbing layer provided on the slant surfaces of the external light-absorbing sections.

Re. Claim 5, a manufacturing method for a lenticular lens sheet comprising the steps of:

- Forming an external light-absorbing layer on the slant surfaces of the external light-absorbing sections.

However, Moriguchi et al teaches:

Re. Claim 4, a lenticular lens sheet comprising:

- An external light-absorbing layer (Fig. 1, 7) provided on the slant surfaces of the external light-absorbing sections (3).

Re. Claim 5, a manufacturing method for a lenticular lens sheet comprising the steps of:

- Forming an external light-absorbing layer (Fig. 1, 7) on the slant surfaces of the external light-absorbing sections (3).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention was made to add a external light absorbing layer to the external light absorbing section for the purpose of absorbing light in order to increase the contrast of the image.

3. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sun (US 6,816,307) in view of Moriguchi et al (US 4,509,823) further in view of Abe et al (US 6,384,970).

Sun and Moriguchi et al.'s teachings have be discussed above.

Sun and Moriguch et al. do not teach:

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Re. Claim 6, a manufacturing method for a lenticular lens sheet:

- Wherein the light-absorbing layer is formed by roll printing.

However, Abe et al teaches:

- Wherein the light-absorbing layer is formed by roll printing. (Column , lines )

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention was made to add a external light absorbing layer by using a printing method so that contrast can be increased.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert C. Do whose telephone number is (571)272-1387. The examiner can normally be reached on Monday Through Friday, 8am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diane Lee can be reached on (571)272-2399. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

RCD



DIANE LEE  
SUPERVISORY PATENT EXAMINER